WHAT IS CLAIMED IS:

1. A cathode ray tube comprising:

a front glass panel;

a funnel connected to the panel, thereby forming a vacuum tube;

an electron gun emitting electron beams; and

a deflection yoke deflecting the electron beams emitted from the electron gun in the horizontal and vertical direction; wherein the deflection yoke comprises:

a deflection coil wound of a coil wire deflecting the electron beams;

wherein the coil wire has a core reinforcing a magnetic field generated around the deflection coil, and the deflection coil wire comprises:

an aluminum core;

a copper layer surrounding the aluminum core; and

an insulating layer surrounding the copper layer.

2. The cathode ray tube according to claim 1, wherein the deflection coil wire further comprises a bonding layer.

3. The cathode ray tube according to claim 1, wherein copper is a main ingredient of the deflection coil, and aluminum is a main ingredient of auxiliary deflection coils.

4. The cathode ray tube according to claim 1, wherein copper is a main ingredient of the horizontal deflection coil, and aluminum is a main ingredient of the vertical deflection coil.

5. The cathode ray tube according to claim 1, wherein the deflection yoke further comprises a holder for insulating the horizontal and vertical deflection coils.

6. A cathode ray tube comprising:

a front glass panel;

a funnel connected to the panel, thereby forming a vacuum tube;

an electron gun emitting electron beams; and a deflection yoke deflecting the electron beams emitted from the electron gun in the horizontal and vertical direction;

wherein the deflection yoke comprises:

a deflection coil wound of a coil wire deflecting the electron beams;

a core reinforcing a magnetic field generated around the deflection coils, wherein the deflection coils comprises:

an aluminum core; and

an insulating layer including an insulator at a predetermined thickness surrounding the aluminum core.

7. The cathode ray tube according to claim 6, wherein the deflection coil is a horizontal deflection coil or a vertical deflection coil.

8. The cathode ray tube according to claim 7, wherein the deflection coil is a saddle type.

9. The cathode ray tube according to claim 7, wherein the deflection coil is a toroidal type.

10. The cathode ray tube according to claim 6, wherein the deflection coil further comprises a bonding layer with adhesives being formed around the circumference of the insulating layer.

11. The cathode ray tube according to claim 10, wherein the deflection coil is a horizontal deflection coil or a vertical deflection coil.

12. The cathode ray tube according to claim 11, wherein the deflection coil is a saddle type.

13. The cathode ray tube according to claim 11, wherein the deflection coil is a toroidal type.

14. The cathode ray tube according to claim 6, wherein the deflection coil has a diameter ranging from 0.1mm to 0.7mm.

15. The cathode ray tube according to claim 14, wherein the deflection coil has a diameter ranging from 0.1mm to 0.4mm, and is used for a monitor.

16. The cathode ray tube according to claim 14, wherein the deflection coil has a diameter ranging from 0.2mm to 0.7mm, and is used for a TV.

17. The cathode ray tube according to claim 6, wherein the aluminum layer has a cylindrical shape.

18. The cathode ray tube according to claim 6, wherein the deflection yoke comprises at least one of a rotation coil, a degaussing coil, a cancel coil, a CY coil, a CF coil, and a fetch line.

19. The cathode ray tube according to claim 6, wherein the deflection yoke further comprises a holder for insulating the horizontal and vertical deflection coils.

20. A conductive coil wire, comprising:

a conductive aluminum core;

an insulating layer surrounding the conductive core; and

a bonding layer including an adhesive surrounding the insulating layer.

21. The conductive coil according to claim 20, further comprises a copper layer surrounding the conductive aluminum core.

22. The conductive coil according to claim 20, wherein the conductive coil has a diameter ranging from 0.1mm to 0.7mm.